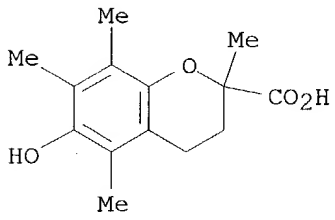
```
     (FILE 'HOME' ENTERED AT 10:16:12 ON 11 MAY 2004)

     FILE 'REGISTRY' ENTERED AT 10:16:32 ON 11 MAY 2004
                E 6-HYDROXY-2,5,7,8-TETRAMETHYLCHROMAN-2-CARBOXYLIC ACID/CN
L1             1 S E3

     FILE 'CAPLUS' ENTERED AT 10:17:14 ON 11 MAY 2004

     FILE 'REGISTRY' ENTERED AT 10:17:20 ON 11 MAY 2004
                SET SMARTSELECT ON
L2           SEL L1 1- CHEM :        8 TERMS
                SET SMARTSELECT OFF

     FILE 'CAPLUS' ENTERED AT 10:17:21 ON 11 MAY 2004
L3          1703 S L2
L4           487 S L3 AND (ASCORBIC OR ASCORBATE)
L5            41 S L4 AND (RADIAT? OR IRRADIAT?)
```

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 53188-07-1 REGISTRY
CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl-, (.+-.)-
OTHER NAMES:
CN (.+-.)-6-Hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid
CN (.+-.)-Trolox
CN (R,S)-6-Hydroxy-2,5,7,8-tetramethyl-2-chromanecarboxylic acid
CN **6-Hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid**
CN Trolox
CN Trolox C
FS 3D CONCORD
DR 56305-04-5
MF C14 H18 O4
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

944 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
950 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 44 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:464724 CAPLUS
DN 115:64724
ED Entered STN: 23 Aug 1991
TI **Free radical** scavenging activity of **carnosine**
AU Salim-Hanna, Marta; Lissi, Eduardo; Videla, Luis A.
CS Fac. Sci., Univ. Santiago, Santiago, Chile
SO Free Radical Research Communications (1991), 14(4), 263-70
CODEN: FRRCEX; ISSN: 8755-0199
DT Journal
LA English
CC 1-12 (Pharmacology)
AB The capacity of **carnosine** to decrease **free radical**-induced damage was evaluated using the oxidn. of brain homogenates, 2,2'-azobis-2-amidinopropane-induced oxidn. of erythrocyte ghost membranes, radiation-induced inactivation of horseradish peroxidase, and 2,2'-azobis-2-amidinopropane-induced inactivation of lysozyme. Carnosine up to 17 mM did not protect any lipid peroxidn. system, as assayed by the oxygen uptake rate. Carnosine reduced the intensity of the visible luminescence emitted apparently due to a dark decompn. of the luminescent intermediates. **Carnosine** protected horseradish peroxidase and lysozyme from **free radical**-mediated inactivation. The mean carnosine concns. required to inhibit the inactivation by 50% were 0.13 and 0.6 mM for horseradish peroxidase and lysozyme, resp.
ST carnosine scavenger oxygen radical
IT 3352-57-6, Hydroxyl, biological studies 7782-44-7D, Oxygen, radicals
RL: BIOL (Biological study)
(carnosine scavenging of)
IT 71-00-1, L-Histidine, biological studies 107-95-9, .beta.-Alanine
305-84-0, Carnosine
RL: PRP (Properties)
(oxygen radical scavenging effects of)